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https://www.100test.com/kao_ti2020/84/2021_2022_SOA_E7_9C_9F_E9_A2_98N_c50_84041.htm COURSE 8: November 2001 - 1 - GO TO NEXT PAGERetirement Benefits,Pension Funding Mathematics SegmentNovember, 2001- Course 8PSociety of Actuaries**BEGINNING OF EXAMINATION**1. (8 points) A new Company has established a contributory pension plan on January 1,2001. You are given:Plan ProvisionsRetirement benefit: The greater of:(i) 2% of career average earnings, or(ii) actuarial equivalent of 200% of employeecontributions accumulated at the fundrate of returnNormal form of payment: 5 years certain and life thereafter, payable monthlyin advanceNormal retirement age: 65Employee contributions: 4% of annual earnings, payable at the beginning ofthe yearTermination or death benefit: Lump sum payment of 200% of employeecontributions accumulated at the fund rate of returnActuarial equivalence: At valuation assumptionsActuarial Assumptions and MethodsInterest rate: 6.5% per annumRetirement age: 65Salary increases: 4.0% per annumTermination rates: Attained Age Year-end ratesUp to 34 10%35 and over 0%Other pre-retirement decrements: NoneActuarial cost method: Unit CreditActuarial value of assets: Market value&.:a 10.4655b12g amp.& a65b12g 9.0 11.0(a) Calculate the normal cost for the Basic Plan at January 1, 2001.(b) Calculate the normal cost for the Supplemental Plan at January 1, 2001.Show all work.COURSE 8: November 2001 - 5 - GO TO

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